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Refine Search neural and predict and multilayer

PAT.

NO.

Title

- 1 7,058,617 T Method and apparatus for training a system model with gain constraints
- 2 7,054,847 T System and method for on-line training of a support vector machine
- 3 7,050,866 Dynamic controller for controlling a system
- 4 7,050,179 Method and apparatus for multidomain data analysis
- 5 7,047,089 Kiln thermal and combustion control
- 6 7,035,740 Artificial intelligence and global normalization methods for genotyping
- 7 7,029,441 T Animal healthcare, well-being and nutrition
- 8 7,027,953 T Method and system for diagnostics and prognostics of a mechanical system
- 9 7,024,335 T Condition assessment and life expectancy prediction for devices
- 10 7,024,252 M Kiln thermal and combustion control
- 11 7,020,642 T System and method for pre-processing input data to a support vector machine
- 12 7,019,391 T NANO IC packaging
- 13 7,006,881 Media recording device with remote graphic user interface
- 14 7,005,500 T Human cDNAs and proteins and uses thereof
- 15 7,003,149 Method and device for optically monitoring fabrication processes of finely structured surfaces in a semiconductor production
- 16 6,989,262 Plasmin variants and uses thereof
- 17 6,981,040 Automatic, personalized online information and product services
- 18 6,976,207 T Classification method and apparatus
- 19 6,950,711 Method for optimizing a plant with multiple inputs
- 20 6,947,915 Multiresolution learning paradigm and signal prediction
- 21 6,944,616 T System and method for historical database training of support vector machines
- 22 6,942,771 Microfluidic systems in the electrochemical detection of target analytes
- 23 6,941,301 T Pre-processing input data with outlier values for a support vector machine

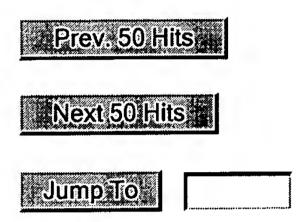
- 24 6,907,412 T Visualization and self-organization of multidimensional data through equalized orthogonal mapping
- 25 6,904,408 The Bionet method, system and personalized web content manager responsive to browser viewers' psychological preferences, behavioral responses and physiological stress indicators
- 26 6,904,335 The System, method and apparatus for organizing groups of self-configurable mobile robotic agents in a multi-robotic system.
- 27 6,898,533 M Methods for predicting the biological, chemical, and physical properties of molecules from their spectral properties
- 28 6,898,532 M Method and apparatus for predicting the presence of haemostatic dysfunction in a patient sample
- 29 6,884,184 The Dimpled golf ball and dimple distributing method
- 30 6,882,992 Neural networks for intelligent control
- 31 6,865,582 The Systems and methods for knowledge discovery in spatial data
- 32 6,862,091 T Illumination device and method for spectroscopic analysis
- 33 6,850,252 Intelligent electronic appliance system and method
- 34 6,839,599 TKiln/cooler control and upset recovery using a combination of model predictive control and expert systems
- 35 6,834,239 Method, system, and computer program product for determining properties of combinatorial library products from features of library building blocks
- 36 6,833,267 Tissue collection devices containing biosensors
- 37 6,828,920 System and method for classifying vehicles
- 38 <u>6,799,117</u> T Predicting sample quality real time
- 39 6,794,363 I Isolated amyloid inhibitor protein (APIP) and compositions thereof
- 40 6,789,054 The Geometric display tools and methods for the visual specification, design automation, and control of adaptive real systems
- 41 6,785,592 System and method for energy management
- 42 6,781,706 Method and apparatus for multidomain data analysis
- 43 6,761,816 Printed circuit boards with monolayers and capture ligands
- 44 6,757,579 T Kalman filter state estimation for a manufacturing system
- 45 6,754,293 Method and circuit arrangement for processing a signal containing interference
- 46 6,740,518 T Signal detection techniques for the detection of analytes
- 47 6,738,677 Method and apparatus for modeling dynamic and steady-state processes for prediction, control and optimization
- 48 6,735,483 Method and apparatus for controlling a non-linear mill
- 49 6,732,052 Method and apparatus for prediction control in drilling dynamics using neural networks
- 50 6,727,071 T System for cell-based screening



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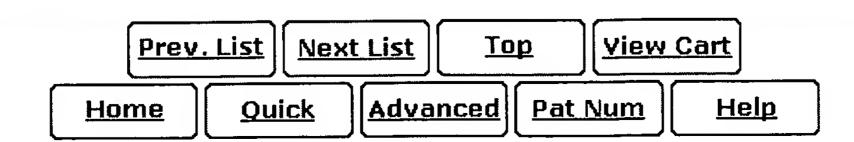
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- Title
- NO.
- 51 <u>6,726,767</u> **T** Layer processing
- 52 6,725,208 T Bayesian neural networks for optimization and control
- 53 6,708,160 T Object nets
- 54 6,702,696 T Dimpled golf ball and dimple distributing method
- 55 6,700,648 T Method for controlling a processing apparatus
- 56 6,678,619 T Method, system, and computer program product for encoding and building products of a virtual combinatorial library
- 57 6,678,582 Method and control device for avoiding collisions between cooperating robots
- 58 6,640,145 T Media recording device with packet data interface
- 59 6,625,501 TKiln thermal and combustion control
- 60 6,602,109 T Grinding wheel system
- 61 6,592,222 T Flicker and frequency doubling in virtual reality
- 62 6,581,048 T 3-brain architecture for an intelligent decision and control system
- 63 6,564,153 Method and apparatus for predicting the presence of an abnormal level of one or more proteins in the clotting cascade
- 64 6,560,586 T Multiresolution learning paradigm and signal prediction
- 65 6,556,951 System and method for intelligent quality control of a process
- 66 6,556,853 T Spectral bio-imaging of the eye
- 67 6,541,617 T Detection of target analytes using particles and electrodes
- 68 6,539,304 T GPS navigation system using neural networks
- 69 6,537,213 Animal health care, well-being and nutrition
- 70 6,532,076 T Method and apparatus for multidomain data analysis

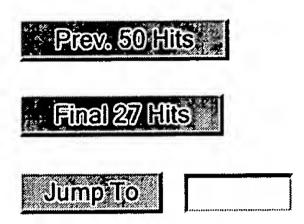
- 71 6,523,015 **T** Robust modeling
- 72 6,511,424 T Method of and apparatus for evaluation and mitigation of microsleep events
- 73 6,507,774 T Intelligent emissions controller for substance injection in the post-primary combustion zone of fossil-fired boilers
- 74 6,493,596 T Method and apparatus for controlling a non-linear mill
- 75 6,487,459 Method and apparatus for modeling dynamic and steady-state processes for prediction, control and optimization
- 76 6,472,842 T Self-tuning control of switched-reluctance motor drive system
- 77 6,463,438 T Neural network for cell image analysis for identification of abnormal cells
- 78 6,462,697 System and method for classifying and tracking aircraft vehicles on the grounds of an airport
- 79 6,453,246 System, method, and computer program product for representing proximity data in a multi-dimensional space
- 80 6,438,430 T Kiln thermal and combustion control
- 81 6,424,956 T Stochastic encoder/decoder/predictor
- 82 6,421,654 T Learning method generating small size neurons for data classification
- 83 6,421,612 System, method and computer program product for identifying chemical compounds having desired properties
- 84 6,418,424 T Ergonomic man-machine interface incorporating adaptive pattern recognition based control system
- 85 6,401,082 Autoassociative-heteroassociative neural network
- 86 6,400,996 Adaptive pattern recognition based control system and method
- 87 6,386,706 T Visual function testing with virtual retinal display
- 88 6,381,504 T Method for optimizing a plant with multiple inputs
- 89 6,366,236 Neural network radar processor
- 90 6,351,711 T GPS navigation system using neural networks
- 91 6,321,164 Method and apparatus for predicting the presence of an abnormal level of one or more proteins in the clotting cascade
- 92 6,306,087 T Computer assisted methods for diagnosing diseases
- 93 6,295,514 Method, system, and computer program product for representing similarity/dissimilarity between chemical compounds
- 94 6,290,839 T Systems for electrophoretic transport and detection of analytes
- 95 6,278,962 T Hybrid linear-neural network process control
- 96 6,278,899 T Method for on-line optimization of a plant
- 97 6,276,798 T Spectral bio-imaging of the eye
- 98 6,269,313 Method for predicting the presence of congenital and therapeutic conditions from coagulation screening assays
- 99 6,264,825 The Binding acceleration techniques for the detection of analytes
- 100 6,248,063 T Computer assisted methods for diagnosing diseases



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PAT.

Title

NO.

- 101 6,225,132 T Enhanced chromatography using multiphoton detection
- 102 6,217,695 Method and apparatus for radiation heating substrates and applying extruded material
- 103 <u>6,212,509</u> T <u>Visualization and self-organization of multidimensional data through equalized orthogonal mapping</u>
- 104 6,212,508 T Process and arrangement for conditioning an input variable of a neural network
- 105 6,185,470 Neural network predictive control method and system
- 106 6,185,336 Method and system for classifying a halftone pixel based on noise injected halftone frequency estimation
- 107 6,169,981 T 3-brain architecture for an intelligent decision and control system
- 108 6,167,117 T Voice-dialing system using model of calling behavior
- 109 6,138,945 Neural network controller for a pulsed rocket motor tactical missile system
- 110 6,134,537 T Visualization and self organization of multidimensional data through equalized orthogonal mapping
- 111 6,118,850 Analysis methods for energy dispersive X-ray diffraction patterns
- 112 6,101,449 T Method for predicting the presence of congenital and therapeutic conditions from coagulation screening assays
- 113 6,081,750 T Ergonomic man-machine interface incorporating adaptive pattern recognition based control system
- 114 6,070,098 T Method of and apparatus for evaluation and mitigation of microsleep events
- 115 6,063,028 T Automated treatment selection method
- 116 6,055,524 M Model-free adaptive process control
- 117 6,047,221 M Method for steady-state identification based upon identified dynamics

T

- 118 6,042,548 Virtual neurological monitor and method
- 119 6,025,128 In Prediction of prostate cancer progression by analysis of selected predictive parameters
- 120 6,009,419 Method for predicting cement properties
- 121 5,989,811 The Sextant core biopsy predictive mechanism for non-organ confined disease status
- 122 5,987,442 In Method and apparatus for learning network behavior trends and predicting future behavior of communications networks
- 123 5,960,422 The System and method for optimized source selection in an information retrieval system
- 124 5,933,819 T Prediction of relative binding motifs of biologically active peptides and peptide mimetics
- 125 5,933,345 M Method and apparatus for dynamic and steady state modeling over a desired path between two end points
- 126 5,924,085 T Stochastic encoder/decoder/predictor
- 127 5,920,852 Th Large memory storage and retrieval (LAMSTAR) network
- 128 <u>5,920,477</u> II <u>Human factored interface incorporating adaptive pattern recognition based controller apparatus</u>
- 129 <u>5,901,246</u> T <u>Ergonomic man-machine interface incorporating adaptive pattern recognition based control system</u>
- 130 5,887,588 T Automated method for classification and quantification of human brain metabolism
- 131 5,877,954 T Hybrid linear-neural network process control
- 132 5,875,108 T Ergonomic man-machine interface incorporating adaptive pattern recognition based control system
- 133 5,862,513 T Systems and methods for forward modeling of well logging tool responses
- 134 5,854,084 The Enhanced chromatography using multiphoton detection
- 135 5,845,237 T Process for determining the value of a physical quantity
- 136 5,835,901 The Perceptive system including a neural network
- 137 5,819,242 T Fuzzy-neural network system and a learning method therein
- 138 5,794,094 T Accurate toner level feedback via active artificial intelligence
- 139 5,774,831 T System for improving average accuracy of signals from global positioning system by using a neural network to obtain signal correction values
- 140 <u>5,774,357</u> II <u>Human factored interface incorporating adaptive pattern recognition based controller apparatus</u>
- 141 5,769,074 Tomputer assisted methods for diagnosing diseases
- 142 5,761,442 The Predictive neural network means and method for selecting a portfolio of securities wherein each network has been trained using data relating to a corresponding security
- 143 5,761,383 T Adaptive filtering neural network classifier
- 144 <u>5,751,915</u> T Elastic fuzzy logic system
- 145 5,741,648 TI Cell analysis method using quantitative fluorescence image analysis
- 146 5,737,496 T Active neural network control of wafer attributes in a plasma etch process
- 147 5,733,721 To Cell analysis method using quantitative fluorescence image analysis
- 148 5,724,983 Tontinuous monitoring using a predictive instrument
- 149 5,720,003 M Method and apparatus for determining the accuracy limit of a learning machine for predicting path performance degradation in a communications network
- 150 5,718,233 T Continuous monitoring using a predictive instrument

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PAT.

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Title

- 151 5,715,372 Method and apparatus for characterizing an input signal
- 152 5,714,866 M Method and apparatus for fast battery charging using neural network fuzzy logic based control
- 153 5,708,591 Method and apparatus for predicting the presence of congenital and acquired imbalances and therapeutic conditions
- 154 5,704,016 T Temporal learning neural network
- 155 5,664,066 II Intelligent system for automatic feature detection and selection or identification
- 156 5,649,061 Device and method for estimating a mental decision
- 157 5,578,923 T T2 restoration and noise suppression of hybrid MR images using wiener and linear prediction techniques
- 158 5,532,950 Dynamic digital filter using neural networks
- 159 <u>5,517,122</u> T <u>T2 restoration and noise suppression of hybrid MR images using Wiener and linear prediction techniques</u>
- 160 5,501,229 T Continuous monitoring using a predictive instrument
- 161 5,490,062 T Real-time neural network earthquake profile predictor
- 162 5,479,571 I Neural node network and model, and method of teaching same
- 163 5,467,883 Active neural network control of wafer attributes in a plasma etch process
- 164 5,467,428 T Artificial neural network method and architecture adaptive signal filtering
- 165 5,408,588 Artificial neural network method and architecture
- 166 5,402,519 Neural network system adapted for non-linear processing
- 167 5,377,307 T System and method of global optimization using artificial neural networks
- 168 5,373,452 Intangible sensor and method for making same
- 169 5,345,539 T Radar apparatus using neural network for azimuth and elevation detection
- 170 5,333,240 Neural network state diagnostic system for equipment

- 171 5,313,534 T Image compression method
- 172 5,311,421 Process control method and system for performing control of a controlled system by use of a neural network
- 173 5,255,347 Neural network with learning function
- 174 5,251,286 Method for estimating formation permeability from wireline logs using neural networks
- 175 5,140,670 T Cellular neural network
- 176 5,130,563 T Optoelectronic sensory neural network
- 177 5,046,020 Distributed parallel processing network wherein the connection weights are generated using stiff differential equations





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 A neural network that explains as well as predicts financial market behavior Ornes, C.; Sklansky, J.; Computational intelligence for Financial Engineering (CIFEr). 1997 Proceedings of the IEEE/IAFE 24-25 March 1997 Page(s):43 - 49 Digital Object Identifier 10.1109/CIFER.1997.618903 AbstractPlus Full Text: PDF(500 KB) IEEE CNF Rights and Permissions
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Daniel A. Jiménez, Calvin Lin

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This article presents a new and highly accurate method for branch prediction. The key idea is to use one of the simplest possible neural methods, the perceptron, as an alternative to the commonly used two-bit counters. The source of our predictor's accuracy is its ability to use long history lengths, because the hardware resources for our method scale linearly, rather than exponentially, with the history length. We describe two versions of perceptron predictors, and we evaluate these predictors ...

Keywords: Branch prediction, neural networks

A graphical model for protein secondary structure prediction





Wei Chu, Zoubin Ghahramani, David L. Wild

July 2004 Proceedings of the twenty-first international conference on Machine learning ICML '04

Publisher: ACM Press

Full text available: pdf(366.19 KB) Additional Information: full citation, abstract, references

In this paper, we present a graphical model for protein secondary structure prediction. This model extends segmental semi-Markov models (SSMM) to exploit multiple sequence alignment profiles which contain information from evolutionarily related sequences. A novel parameterized model is proposed as the likelihood function for the SSMM to capture the segmental conformation. By incorporating the information from long range interactions in B-sheets, this model is capable of carrying out infere ...

5 Special issue on Machine learning methods for text and images: A neural probabilistic language model



Publisher: MIT Press

Full text available: pdf(128.42 KB) Additional Information: full citation, abstract, index terms

A goal of statistical language modeling is to learn the joint probability function of sequences of words in a language. This is intrinsically difficult because of the curse of dimensionality: a word sequence on which the model will be tested is likely to be different from all the word sequences seen during training. Traditional but very successful approaches based on n-grams obtain generalization by concatenating very short overlapping sequences seen in the training set. We propose to fig ...

6 Real world applications: A pareto archive evolutionary strategy based radial basis function neural network training algorithm for failure rate prediction in overhead feeders

Grant Cochenour, Jerad Simon, Sanjoy Das, Anil Pahwa, Surasish Nag June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(369.75 KB) Additional Information: full citation, abstract, references, index terms

This paper outlines a radial basis function neural network approach to predict the failures in overhead distribution lines of power delivery systems. The RBF networks are trained using historical data. The network sizes and errors are simultaneously minimized using the Pareto Archive Evolutionary Strategy algorithm. Mutation of the network is carried out by invoking an orthogonal least square procedure. The performance of the proposed method was compared to a fuzzy inference approach and with mu ...

Keywords: multi-objective optimization, neural networks, pareto archive evolutionary strategy, power system reliability, radial basis function

7 A predictive location model for location-based services



Hassan A. Karimi, Xiong Liu

November 2003 Proceedings of the 11th ACM international symposium on Advances in geographic information systems

Publisher: ACM Press

Full text available: pdf(255.87 KB) Additional Information: full citation, abstract, references, index terms

Location-Based Services (LBSs) utilize information about users' locations through locationaware mobile devices to provide services, such as nearest features of interest, they request. This is a common strategy in LBSs and although it is needed and benefits the users, there are additional benefits when future locations (e.g., locations at later times) are predicted. One major advantage of location prediction is that it provides LBSs with extended resources, mainly time, to improve system reliabi ...





Keywords: database, location management, location prediction, location-based services, mobility, probabilistic method, trajectory

Markov Encoding for Detecting Signals in Genomic Sequences

Jagath C. Rajapakse, Loi Sy Ho

April 2005 IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB), Volume 2 Issue 2

Publisher: IEEE Computer Society Press

Full text available: pdf(802.08 KB) Additional Information: full citation, abstract, references, index terms

We present a technique to encode the inputs to neural networks for the detection of signals in genomic sequences. The encoding is based on lower-order Markov models which incorporate known biological characteristics in genomic sequences. The neural networks then learn intrinsic higher-order dependencies of nucleotides at the signal sites. We demonstrate the efficacy of the Markov encoding method in the detection of three genomic signals, namely, splice sites, transcription start sites, and trans ...

Keywords: Genomic sequences, gene structure prediction, Markov chain, neural networks, splice sites, transcription start site, translation initiation site.

Session 9A: System level test and reliability: Accurate CMOS bridge fault modeling with neural network-based VHDL saboteurs



Don Shaw, Dhamin Al-Khalili, Côme Rozon

November 2001 Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design

Publisher: IEEE Press

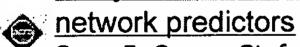
Additional Information: full citation, abstract, references, citings, index Full text available: pdf(137.79 KB) <u>terms</u>

This paper presents a new bridge fault model that is based on a multiple layer feedforward neural network and implemented within the framework of a VHDL saboteur cell. Empirical evidence and experimental results show that it satisfies a prescribed set of bridge fault model criteria better than existing approaches. The new model computes exact bridged node voltages and propagation delay times with due attention to surrounding circuit elements. This is significant since, with the exception of full ...

Keywords: CMOS ICs, VHDL, bridge defects, fault models, fault simulation, neural networks

10 Utility based data mining for time series analysis: cost-sensitive learning for neural





Sven F. Crone, Stefan Lessmann, Robert Stahlbock

August 2005 Proceedings of the 1st international workshop on Utility-based data mining UBDM '05

Publisher: ACM Press

Full text available: pdf(442.57 KB) Additional Information: full citation, abstract, references, index terms

In corporate data mining applications, cost-sensitive learning is firmly established for predictive classification algorithms. Conversely, data mining methods for regression and time series analysis generally disregard economic utility and apply simple accuracy measures. Methods from statistics and computational intelligence alike minimise a symmetric statistical error, such as the sum of squared errors, to model ordinary least squares predictors. However, applications in business elucidate that ...

Keywords: asymmetric costs, cost-sensitive learning, data mining, neural networks, time series analysis

11 Multimedia data mining: Automatic classification of speech and music using neural





networks

M. Kashif Saeed Khan, Wasfi G. Al-Khatib, Muhammad Moinuddin

November 2004 Proceedings of the 2nd ACM international workshop on Multimedia databases

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms Full text available: pdf(1.67 MB)

The importance of automatic discrimination between speech signals and music signals has evolved as a research topic over recent years. The need to classify audio into categories such as speech or music is an important aspect of many multimedia document retrieval systems. Several approaches have been previously used to discriminate between speech and music data. In this paper, we propose the use of the mean and variance of the discrete wavelet transform in addition to other features that have ...

Keywords: audio features, audio signal processing, content-based indexing, music speech classification, neural networks

12 Predictor Models in Software Engineering (PROMISE): An investigation of the effect of module size on defect prediction using static measures





A. Günes Koru, Hongfang Liu

May 2005 ACM SIGSOFT Software Engineering Notes, Proceedings of the 2005 workshop on Predictor models in software engineering PROMISE '05, Volume 30 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms Full text available: pdf(96.32 KB)

We used several machine learning algorithms to predict the defective modules in five NASA products, namely, CM1, JM1, KC1, KC2, and PC1. A set of static measures were employed as predictor variables. While doing so, we observed that a large portion of the modules were small, as measured by lines of code (LOC). When we experimented on the data subsets created by partitioning according to module size, we obtained higher prediction performance for the subsets that include larger modules. We also pe ...

Keywords: defect prediction, prediction models, software metrics, software quality management, static measures

13 Posters: Accurate web recommendations based on profile-specific url-predictor





neural networks

Olfa Nasraoui, Mrudula Pavuluri

May 2004 Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters

Publisher: ACM Press

Full text available: pdf(192.19 KB) Additional Information: full citation, abstract, references, index terms

We present a Context Ultra-Sensitive Approach based on two-step Recommender systems (CUSA-2-step-Rec). Our approach relies on a committee of profile-specific neural networks. This approach provides recommendations that are accurate and fast to train because only the URLs relevant to a specific profile are used to define the architecture of each network. We compare the proposed approach with collaborative filtering showing that our approach achieves higher coverage and precision while bein ...

Keywords: collaborative filtering, neural networks, web mining

14 Learning classifier systems and other genetics-based machine learning: Modeling





systems with internal state using evolino Daan Wierstra, Faustino J. Gomez, Jürgen Schmidhuber

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary

computation GECCO '05

Publisher: ACM Press

Full text available: pdf(323.88 KB) Additional Information: full citation, abstract, references, index terms

Existing Recurrent Neural Networks (RNNs) are limited in their ability to model dynamical systems with nonlinearities and hidden internal states. Here we use our general framework for sequence learning, EVOlution of recurrent systems with LINear Outputs (Evolino), to discover good RNN hidden node weights through evolution, while using linear regression to compute an optimal linear mapping from hidden state to output. Using the Long Short-Term Memory RNN Architecture, Evolino outperforms previous ...

Keywords: evolution and learning, recurrent neural networks, time-series prediction

15 Confidence estimation for translation prediction

Simona Gandrabur, George Foster

May 2003 Proceedings of the seventh conference on Natural language learning at **HLT-NAACL 2003 - Volume 4**

Publisher: Association for Computational Linguistics

Full text available: pdf(342.14 KB) Additional Information: full citation, abstract, references

The purpose of this work is to investigate the use of machine learning approaches for confidence estimation within a statistical machine translation application. Specifically, we attempt to learn probabilities of correctness for various model predictions, based on the native probabilites (i.e. the probabilites given by the original model) and on features of the current context. Our experiments were conducted using three original translation models and two types of neural nets (single-layer and m ...

16 Mining sales data using a neural network model of market response

Thomas S. Gruca, Bruce R. Klemz, E. Ann Furr Petersen
June 1999 ACM SIGKDD Explorations Newsletter, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(549.98 KB) Additional Information: full citation, abstract, references

Modeling aggregate market response is a core issue in marketing research. In this research, we extend previous forecasting comparative research by comparing the forecasting accuracy of feed-forward neural network models to the premier market modeling technique, Multiplicative Competitive Interaction (MCI) models. Forecasts are compared in two separate studies: (1) the Information Resources Inc. (IRI) coffee dataset from Marion, IN and (2) the A. C. Nielsen catsup dataset from Sioux Falls, SD. Ou ...

Keywords: market response model, neural networks, sales/market share forecasting

Experiences with criticality predictions in software development

Christof Ebert

November 1997 ACM SIGSOFT Software Engineering Notes, Proceedings of the 6th European conference held jointly with the 5th ACM SIGSOFT international symposium on Foundations of software engineering

ESEC '97/FSE-5, Volume 22 Issue 6 Publisher: Springer-Verlag New York, Inc., ACM Press

Full text available: pdf(1.36 MB) Additional Information: full citation, references, citings, index terms

Keywords: classification, criticality prediction, data analysis, eomplexity, quality models, software metrics

with a case study of gene expression data analysis

N. Kasabov, M. Middlemiss, T. Lane

January 2003 Proceedings of the First Asia-Pacific bioinformatics conference on **Bioinformatics 2003 - Volume 19 CRPITS '03**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(198.92 KB) Additional Information: full citation, abstract, references, index terms

The paper presents a novel generic method for on-line feature extraction from an incrementally trained connectionist system. The method is applied on a case study problem of identifying genes related to classes of diseases, in particular - 14 types of cancer. The method is based on the evolving connectionist systems ECOS paradigm. The analysis of the discovered features through the application of the proposed method on the case study data, demonstrates the potential of the method for solving imp ...

Keywords: cancer, disease profiling, evolving connectionist systems, feature extraction, gene expression patterns

19 The distributed boosting algorithm

Aleksandar Lazarevic, Zoran Obradovic

August 2001 Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM Press

Full text available: pdf(625.23 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a general framework for distributed boosting intended for efficient integrating specialized classifiers learned over very large and distributed homogeneous databases that cannot be merged at a single location. Our distributed boosting algorithm can also be used as a parallel classification technique, where a massive database that cannot fit into main computer memory is partitioned into disjoint subsets for a more efficient analysis. In the proposed method, at each boost ...

Keywords: Boosting, classifier ensembles, distributed learning

20 Short-term MPEG-4 video traffic prediction using ANFIS

Adel Abdennour

November 2005 International Journal of Network Management, Volume 15 Issue 6

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(674.59 KB) Additional Information: full citation, abstract, references, index terms

Multimedia traffic and particularly MPEG-coded video streams are growing to be a major traffic component in high-speed networks. Accurate prediction of such traffic enhances the reliable operation and the quality of service of these networks through a more effective bandwidth allocation and better control strategies. However, MPEG video traffic is characterized by a periodic correlation structure, a highly complex bit rate distribution and very noisy streams. Therefore, it is considered an intra ...

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Relevance scale

Relevance

Best 200 shown

Data mining techniques for optimizing inventories for electronic commerce

window

Anjali Dhond, Amar Gupta, Sanjeev Vadhavkar

August 2000 Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM Press

Full text available: pdf(238.69 KB) Additional Information: full citation, references, index terms

Keywords: data massaging, inventory optimization, temporal data mining

22 Applications of machine learning and rule induction

Pat Langley, Herbert A. Simon

November 1995 Communications of the ACM, Volume 38 Issue 11

Publisher: ACM Press

Full text available: pdf(554.28 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Machine learning is the study of computational methods for improving performance by mechanizing the acquisition of knowledge from experience. Expert performance requires much domain-specific knowledge, and knowledge engineering has produced hundreds of AI expert systems that are now used regularly in industry. Machine learning aims to provide increasing levels of automation in the knowledge engineering process, replacing much time-consuming human activity with automatic tec ...

Enhancing efficiency in the health care industry

Stephan Kudyba, G. Brent Hamar, William M. Gandy

December 2005 Communications of the ACM, Volume 48 Issue 12

Publisher: ACM Press

Full text available: pdf(80.76 KB) html(21.83 KB)

Additional Information: full citation, abstract, references, index terms

Using critical data and predictive modeling can help identify high-risk candidates in a total health plan population.

24 Morphology & tagging: Part-of-speech tagging with neural networks

Helmut Schmid

August 1994 Proceedings of the 15th conference on Computational linguistics -Volume 1

Publisher: Association for Computational Linguistics Additional Information: Full text available:

http://portal.acm.org/results.cfm?query=neural%20and%20predict%20and%20multilayer...

pdf(396.49 KB)

full citation, abstract, references, citings

Text corpora which are tagged with part-of-speech information are useful in many areas of linguistic research. In this paper, a new part-of-speech tagging method based on neural networks (Net-Tagger) is presented and its performance is compared to that of a HMMtagger (Cutting et al., 1992) and a trigram-based tagger (Kempe, 1993). It is shown that the Net-Tagger performs as well as the trigram-based tagger and better than the HMMtagger.

25 A sequential algorithm for training text classifiers

David D. Lewis, William A. Gale

August 1994 Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(902.60 KB) Additional Information: full citation, references, citings, index terms

26 Real world applications: A new evolutionary method for time series forecasting

Tiago A. E. Ferreira, Germano C. Vasconcelos, Paulo J. L. Adeodato

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(217.51 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a new method --- the Time-delay Added Evolutionary Forecasting (TAEF) method --- for time series prediction which performs an evolutionary search of the minimum necessary number of dimensions embedded in the problem for determining the characteristic phase space of the time series. The method proposed is inspired in F. Takens theorem and consists of an intelligent hybrid model composed of an artificial neural network (ANN) combined with a modified genetic algorithm (GA). Init ...

Keywords: forecasting, genetic algorithms, neural network, time series

27 Technical poster session 1: multimedia analysis, processing, and retrieval: Singing

voice detection in popular music

Tin Lay Nwe, Arun Shenoy, Ye Wang

October 2004 Proceedings of the 12th annual ACM international conference on **Multimedia**

Publisher: ACM Press

Full text available: pdf(562.55 KB) Additional Information: full citation, abstract, references, index terms

We propose a novel technique for the automatic classification of vocal and non-vocal regions in an acoustic musical signal. Our technique uses a combination of harmonic content attenuation using higher level musical knowledge of key followed by sub-band energy processing to obtain features from the musical audio signal. We employ a Multi-Model Hidden Markov Model (MM-HMM) classifier for vocal and non-vocal classification that utilizes song structure information to create multiple models as op ...

Keywords: HMM, bootstrapping, singing voice, song structure

28 Machine learning in DNA microarray analysis for cancer classification

Sung-Bae Cho, Hong-Hee Won

January 2003 Proceedings of the First Asia-Pacific bioinformatics conference on **Bioinformatics 2003 - Volume 19 CRPITS '03**

Publisher: Australian Computer Society, Inc.

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(405.54 KB) terms

The development of microarray technology has supplied a large volume of data to many fields. In particular, it has been applied to prediction and diagnosis of cancer, so that it expectedly helps us to exactly predict and diagnose cancer. To precisely classify cancer we have to select genes related to cancer because extracted genes from microarray have many noises. In this paper, we attempt to explore many features and classifiers using three benchmark datasets to systematically evaluate the perf ...

Keywords: KNN, MLP, SASOM, SVM, biological data mining, classification, ensemble classifier, feature selection, gene expression profile

29 Early bankruptcy detection using neural networks

Gottfried Rudorfer

June 1995 ACM SIGAPL APL Quote Quad, Proceedings of the international conference on Applied programming languages APL '95, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(810.07 KB) Additional Information: full citation, abstract, references, index terms

In 1993, Austria had the highest number of bankruptcies since 1945. The total liabilities came to approximately US\$ 3 billion. Powerful tools for the early detection of company risks are very important to avoid high economic losses. Artificial neural networks (ANN) are suitable for many tasks in pattern recognition and machine learning. In this paper we present an ANN for early detection of company failures using balance sheet ratios. The neural network has been successfully ...

Keywords: APL, artificial neural networks, backpropagation, balance sheet ratios, bankruptcy, discriminant analysis

30 Multiprocessor simulation of neural networks with NERV

R. Manner, R. Horner, R. Hauser, A. Genthner
August 1989 Proceedings of the 1989 ACM/IEEE conference on Supercomputing

Publisher: ACM Press

Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, references, index terms

A general-purpose simulation system for neural networks is computationally very demanding. This paper presents some estimations of the computing power required, the necessary interconnection bandwidth, and the requisite memory size. Next, the hardware architecture of the NERV multiprocessor system is derived that fulfills these requirements. Up to 320 processors 68020 are used in a single VME crate together with a Macintosh II as a host computer. This set-up provides a computing power of 13 ...

31 Time series forecasting using neural networks

Thomas Kolarik, Gottfried Rudorfer

August 1994 ACM SIGAPL APL Quote Quad, Proceedings of the international conference on APL: the language and its applications: the language and its applications APL '94, Volume 25 Issue 1

Publisher: ACM Press

32

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(657.67 KB) terms

Artificial neural networks are suitable for many tasks in pattern recognition and machine learning. In this paper we present an APL system for forecasting univariate time series with artificial neural networks. Unlike conventional techniques for time series analysis, an artificial neural network needs little information about the time series data and can be applied to a broad range of problems. However, the problem of network "tuning" remains: parameters of the backpropagation a ...

A hybrid expert system-neural networks methodology for anticipatory control in a process environment



L. Tsoukalas, J. Reyes-Jimenez

June 1990 Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems -Volume 2 IEA/AIE '90

Publisher: ACM Press

Full text available: pdf(668.58 KB) Additional Information: full citation, abstract, references, index terms

A methodology is presented that couples expert systems to neural networks for the purpose of monitoring and control in a process environment. This is achieved within the framework of the anticipatory paradigm. The basic assumption of the anticipatory paradigm is that a complex system can modify its behavior on the basis of present as well as anticipated future states. The complex systems contemplated in this research use measures of performance to represent current as well as antici ...

33 A training algorithm for optimal margin classifiers



Bernhard E. Boser, Isabelle M. Guyon, Vladimir N. Vapnik

July 1992 Proceedings of the fifth annual workshop on Computational learning theory

Publisher: ACM Press

Full text available: pdf(1.00 MB)

Additional Information: full citation, abstract, references, citings, index terms

A training algorithm that maximizes the margin between the training patterns and the decision boundary is presented. The technique is applicable to a wide variety of the classification functions, including Perceptrons, polynomials, and Radial Basis Functions. The effective number of parameters is adjusted automatically to match the complexity of the problem. The solution is expressed as a linear combination of supporting patterns. These are the subset of training patterns that are closest t ...

34 Additive versus exponentiated gradient updates for linear prediction



Jyrki Kivinen, Manfred K. Warmuth

Jyrki Kivinen, Mantred K. Warmuch

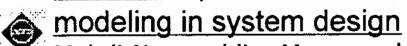
May 1995 Proceedings of the twenty-seventh annual ACM symposium on Theory of computing

Publisher: ACM Press

Additional Information: full citation, references, citings, index terms Full text available: pdf(1.17 MB)

35 The development of a methodology for the use of neural networks and simulation





Mahdi Nasereddin, Mansooreh Mollaghasemi

December 1999 Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1

Publisher: ACM Press

Full text available: pdf(63.14 KB) Additional Information: full citation, references, index terms

Computer applications in health care (CAHC): Regularized B-spline network and its



application to heart arrhythmia classification

Jie Zhou, Liqun Li

March 2004 Proceedings of the 2004 ACM symposium on Applied computing

Publisher: ACM Press

Full text available: pdf(163.10 KB) Additional Information: full citation, abstract, references, index terms

This paper presents an effective learning scheme that combines B-spline modeling and regularized neural networks. Essential issues of structural design and learning process are discussed. Regularization theory is leveraged to design the topological structure of the network. A training algorithm is derived for the learning of both synaptic weights and Bspline coefficients. The approach is then applied to the medical problem of heart arrhythmia detection, particularly the detection of premature v ...

Keywords: B-spline modeling, heart arrhythmia detection, regularized neural network

37 A randomized approximation of the MDL for stochastic models with hidden variables



Kenji Yamanishi

January 1996 Proceedings of the ninth annual conference on Computational learning theory

Publisher: ACM Press

Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings, index terms

38 Article abstracts with full text online: An expert committee model to estimate lines of





code

K. K. Aggarwal, Yogesh Singh, Pravin Chandra, Manimala Puri

September 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 5

Publisher: ACM Press

Full text available: pdf(259.74 KB) Additional Information: full citation, abstract, references, index terms

Resource Estimation is a challenging activity, in the early stages of project development. Once the functionality desired by the user is ascertained, function points can be calculated. This paper proposes to estimate Lines of Code once the Function Point count is known, using linear regression techniques and also a neural network model. These two are then combined to propose an expert committee model which gives better results. This is validated by empirical data available from ISBSG data set (r ...

Keywords: expert committee model, function points, lines of code, neural network, regression

39 Article abstracts with full text online: Evaluation of various training algorithms in a





neural network model for software engineering applications K. K. Aggarwal, Yogesh Singh, Pravin Chandra, Manimala Puri

July 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(412.13 KB) Additional Information: full citation, abstract, references, index terms

Software Engineering as a discipline emerged in response to the software crisis perceived by the industry. It is a well known fact that at the beginning of any project, the software industry needs to know how much will it cost to develop and what would be the time required. Resource estimation in software engineering is more challenging than resource estimation in any other industry. A number of resource estimation methods are currently available and the neural network model is one of them. This ...

Keywords: neural network, resource estimation, software engineering, training algorithm

40 Real world applications: Nonlinear feature extraction using a neuro genetic hybrid





Yung-Keun Kwon, Byung-Ro Moon June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(361.05 KB) Additional Information: full citation, abstract, references, index terms

Feature extraction is a process that extracts salient features from observed variables. It is considered a promising alternative to overcome the problems of weight and structure optimization in artificial neural networks. There were many nonlinear feature extraction methods using neural networks but they still have the same difficulties arisen from the fixed network topology. In this paper, we propose a novel combination of genetic

Results (page 2): neural and predict and multilayer

algorithm and feedforward neural networks for nonlinear feature ...

Keywords: feature extraction, function approximation, neuro-genetic hybrid

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Relevance scale

Automatic summarization of voicemail messages using lexical and prosodic features Konstantinos Koumpis, Steve Renals

Konstantinos Koumpis, Steve Remais
February 2005 ACM Transactions on Speech and Language Processing (TSLP), Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(942.94 KB) Additional Information: full citation, abstract, references, index terms

This aticle presents trainable methods for extracting principal content words from voicemail messages. The short text summaries generated are suitable for mobile messaging applications. The system uses a set of classifiers to identify the summary words with each word described by a vector of lexical and prosodic features. We use an ROCbased algorithm, Parcel, to select input features (and classifiers). We have performed a series of objective and subjective evaluations using unseen data from two ...

Keywords: Voicemail, automatic summarization, feature subset selection, prosody, receiver operating characteristic, short message service

42 Towards robust model selection using estimation and approximation error bounds



Joel Ratsaby, Ronny Meir, Vitaly Maiorov

January 1996 Proceedings of the ninth annual conference on Computational learning theory

Publisher: ACM Press

Full text available: pdf(1.21 MB)

Additional Information: full citation, references, citings, index terms

43 Case recognition and strategy classification



Cees Groendijk, Anja Oskamp

August 1993 Proceedings of the 4th international conference on Artificial intelligence and law

Publisher: ACM Press

Full text available: pdf(943.06 KB)

Additional Information: full citation, abstract, references, index terms, review

In a conventional expert system shell, the process of automated reasoning is generally determined by four components: the current fact situation, a goal, the content of the knowledge base, and control knowledge. This paper focuses on control knowledge. The approach taken is to obtain control knowledge from precedents which resemble the current fact situation. Control knowledge, which is here understood as both referring to search and strategy, is important because control knowledge: 1.-faci ...

Special Issue on learning theory: Generalization error bounds for Bayesian mixture

algorithms

Ron Meir, Tong Zhang

December 2003 The Journal of Machine Learning Research, Volume 4

Publisher: MIT Press

Full text available: pdf(185.84 KB) Additional Information: full citation, abstract, index terms

Bayesian approaches to learning and estimation have played a significant role in the Statistics literature over many years. While they are often provably optimal in a frequentist setting, and lead to excellent performance in practical applications, there have not been many precise characterizations of their performance for finite sample sizes under general conditions. In this paper we consider the class of Bayesian mixture algorithms, where an estimator is formed by constructing a data-dependent ...

45 Book Review: Al game development: Review of "Synthetic Creatures with Learning and Reactive Behaviors by Alex J. Champandard", New Riders Publishing, 2004, 768



pp.

Georgios N. Yannakakis

January 2005 Computers in Entertainment (CIE), Volume 3 Issue 1

Publisher: ACM Press

Full text available: pdf(166.78 KB) Additional Information: full citation, abstract

This book is the first attempt to bridge the current gap between artificial intelligence (AI) research in academia and computer-game development in industry. The book bridges the gap successfully. The author uses FEAR (Flexible Embodied Animat 'Rchitecture), which is an open-source project integrated with a commercial first-person shooter (FPS) game, to analyze, implement, test, and evaluate various AI approaches to various behavioral tasks for nonplayer characters (NPCs). The tasks start with I ...

46 A large project for demonstrating knowledge engineering techniques including





applications of neural networks Mary Micco, Phillip Cumpston

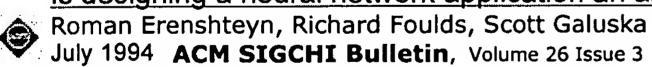
February 1990 ACM SIGCSE Bulletin, Proceedings of the twenty-first SIGCSE technical symposium on Computer science education SIGCSE '90,

Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(641.81 KB) Additional Information: full citation, references, index terms

47 Is designing a neural network application an art or a science?



Publisher: ACM Press

Full text available: pdf(665.19 KB) Additional Information: full citation, abstract, index terms

Both the danger and the attraction of pattern recognition problems lie in their simplicity. When investigators first approach such a problem, they may, with an easiness which borders on carelessness, utilize the methods most familiar to them; and... they sometimes receive satisfactory results. More often, they are haunted by troubles. Only a good understanding of the problem will permit them to solve it. The quality of problem solving depends on the investigator's abilities, experience, knowledg ...

Adaptive learning networks in APL2



Alexander O. Skomorokhov

September 1993 ACM SIGAPL APL Quote Quad, Proceedings of the international conference on APL APL '93, Volume 24 Issue 1

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(865.66 KB)

terms

The paper considers Adaptive Learning Networks (ALN) as a tool to solve the problems of modeling, prediction, diagnostics and pattern recognition in complex systems. This method is similar to the neural network technique. The main difference is the self-organization of network structure on the basis of generation and estimation of various nodes, connections and weights. A set of functions presented in the paper shows that ALNs are easily realized in APL2. User-defined operators are used as a ver ...

49 Article abstracts with full text online: Sensitivity analysis of fuzzy and neural network





models

K. K. Aggarwal, Yogesh Singh, Pravin Chandra, Manimala Puri

July 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(349.86 KB) Additional Information: full citation, abstract, references, index terms

It is well known that soft computing techniques can be very well deployed for software engineering applications. Among these fuzzy and neural models are widely used to estimate lines of codes, effort, software maintainability, software understandability etc. This paper proposes to carry out a sensitivity analysis of the two models and shows which one is better. This is done with the help of a case study where the two models are used to measure software maintainability.

Keywords: condition number, fuzzy, maintainability, neural network, sensitivity analysis

50 Special issue on special feature: Extensions to metric based model selection



March 2003 The Journal of Machine Learning Research, Volume 3

Publisher: MIT Press

Full text available: pdf(156.01 KB) Additional Information: full citation, abstract, citings, index terms

Metric-based methods have recently been introduced for model selection and regularization, often yielding very significant improvements over the alternatives tried (including cross-validation). All these methods require unlabeled data over which to compare functions and detect gross differences in behavior away from the training points. We introduce three new extensions of the metric model selection methods and apply them to feature selection. The first extension takes advantage of the particula ...

The subspace information criterion for infinite dimensional hypothesis spaces

Masashi Sugiyama, Klaus-Robert Müller

March 2003 The Journal of Machine Learning Research, Volume 3

Publisher: MIT Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(532.09 KB) terms

A central problem in learning is selection of an appropriate model. This is typically done by estimating the unknown generalization errors of a set of models to be selected from and then choosing the model with minimal generalization error estimate. In this article, we discuss the problem of model selection and generalization error estimation in the context of kernel regression models, e.g., kernel ridge regression, kernel subset regression or Gaussian process regression. Previously, a no ...

Keywords: Gaussian processes, cross-validation, finite sample statistics, generalization error, kernel regression, model selection, reproducing kernel Hilbert space, subspace information criterion, unbiased estimators

NeuroAnimator: fast neural network emulation and control of physics-based models





Radek Grzeszczuk, Demetri Terzopoulos, Geoffrey Hinton

July 1998 Proceedings of the 25th annual conference on Computer graphics and interactive techniques

Publisher: ACM Press

Full text available: pdf(28.26 MB) Additional Information: full citation, references, citings, index terms

Keywords: backpropagation, dynamical systems, learning, motion control, neural networks, physics-based animation, simulation

53 Pareto-optimal formulations for cost versus colorimetric accuracy trade-offs in printer



color management

D. J. Littlewood, P. A. Drakopoulos, G. Subbarayan

April 2002 ACM Transactions on Graphics (TOG), Volume 21 Issue 2

Publisher: ACM Press

Full text available: pdf(9.84 MB) Additional Information: full citation, abstract, references, index terms

Color management for the printing of digital images is a challenging task, due primarily to nonlinear ink-mixing behavior and the presence of redundant solutions for print devices with more than three inks. Algorithms for the conversion of image data to printer-specific format are typically designed to achieve a single predetermined rendering intent, such as colorimetric accuracy. In the present paper we present two CIELAB to CMYK color conversion schemes based on a general Pareto-optimal formul ...

Keywords: Artificial Neural Networks, CMYK, Color Conversion, Color Fidelity, Color Management, Color Matching, Color Printing, Color Space Transformation, Optimization, Pareto-optimization, Tetrahedral Interpolation

On the optimal capacity of binary neural networks: rigorous combinatorial approaches



Jeong Han Kim, James R. Roche

July 1995 Proceedings of the eighth annual conference on Computational learning theory

Publisher: ACM Press

Full text available: pdf(805.24 KB) Additional Information: full citation, references, index terms

55 ANNIE: a simulated neural network for empirical studies and application prototyping



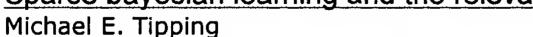
Wendy L. Huxhold, Troy F. Henson, J. Dan Bowman

April 1992 Proceedings of the 25th annual symposium on Simulation ANSS '92

Publisher: IEEE Computer Society Press

Full text available: pdf(690.67 KB) Additional Information: full citation, references, index terms

56 Sparse bayesian learning and the relevance vector machine



September 2001 The Journal of Machine Learning Research, Volume 1

Publisher: MIT Press

Full text available: pdf(999.88 KB) Additional Information: full citation, abstract, citings

This paper introduces a general Bayesian framework for obtaining sparse solutions to regression and classification tasks utilising models linear in the parameters. Although this framework is fully general, we illustrate our approach with a particular specialisation that we denote the 'relevance vector machine' (RVM), a model of identical functional form to the popular and state-of-the-art 'support vector machine' (SVM). We demonstrate that by exploiting a probabilistic Bayesian learning framewor ...

57 Supervised adaptive resonance networks

R. S. Baxter



May 1991 Proceedings of the conference on Analysis of neural network applications

Publisher: ACM Press

Full text available: pdf(1.44 MB)

Additional Information: full citation, references, index terms

58 Pac-bayesian generalisation error bounds for gaussian process classification

Matthias Seeger

March 2003 The Journal of Machine Learning Research, Volume 3

Publisher: MIT Press

Full text available: pdf(487.11 KB) Additional Information: full citation, abstract, references, index terms

Approximate Bayesian Gaussian process (GP) classification techniques are powerful nonparametric learning methods, similar in appearance and performance to support vector machines. Based on simple probabilistic models, they render interpretable results and can be embedded in Bayesian frameworks for model selection, feature selection, etc. In this paper, by applying the PAC-Bayesian theorem of McAllester (1999a), we prove distribution-free generalisation error bounds for a wide range of approxima ...

Keywords: Bayesian learning, Gaussian processes, Gibbs classifier, Kernel machines, PAC-Bayesian framework, convex duality, generalisation error bounds, sparse approximations

59 Neural networks in Japan



Kazuo Asakawa, Hideyuki Takagi

March 1994 Communications of the ACM, Volume 37 Issue 3

Publisher: ACM Press

Full text available: pdf(2.33 MB) Additional Information: full citation, references, citings, index terms

60 Dependency networks for inference, collaborative filtering, and data visualization David Heckerman, David Maxwell Chickering, Christopher Meek, Robert Rounthwaite, Carl Kadie



September 2001 The Journal of Machine Learning Research, Volume 1

Publisher: MIT Press

Full text available: pdf(337.07 KB) Additional Information: full citation, abstract, citings

We describe a graphical model for probabilistic relationships--an alternative to the Bayesian network--called a dependency network. The graph of a dependency network, unlike a Bayesian network, is potentially cyclic. The probability component of a dependency network, like a Bayesian network, is a set of conditional distributions, one for each node given its parents. We identify several basic properties of this representation and describe a computationally efficient procedure for learning the gra ...

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